late in the season for them, as my friend Browning took them as early as the latter part of April, and in numbers the middle of May. They were found on the salt flats from Saltair to within three or four miles of the city.

Under pieces of lumber and other drift-wood along the beach were found numbers of Bembidum henshawi, Haywd. approximatum Lec., and ephippiger Lec. A single specimen each of Tachy's corax Lec., Pogonus planatus Horn and Amara sp. were found. Agabus disintegratus Cr. had been washed ashore by the waves of the lake. A species of Philonthus was taken on the lake shore. Under drift on the beach and near the edge of salt pools were found Dermestes marmoratus Say and talpinus Mann. Three species of Histers were taken under drift: Saprinus lubricus Lec., contractus Csy. and estriatus Lec. A few specimens of Aphodius inquinatus Hbst. were picked up here and a single specimen of the Tenebrionid genus, Blapstinus was taken. Tanarthus salicola Lec. was rather common under drift.

On my return a few hours stop at Cheyenne, Wyo., permitted me to collect a short time north of the city limits, but with poor return. *Trichodes ornatus* Say was found on thistles, and *Canthon praticola* Lec. and *Aphodius coloradensis* Horn occurred under cow-chips. *Acmaops pratensis* Laich was found on sunflowers; *Bruchus pauperculus* Lec. was common on thistle flowers.

The Greenhouse Coccidae, II.

By George B. King, Lawrence, Mass. (Continued from Vol XII, No. 10, page 314)

DIASPINÆ.

34. **Aspidiotus spinosus** Comst. 1883.

This is found only in greenhouses in the United States. Its native home is unknown, and has only been found in greenhouses thus far.

33. Aspidiotus lataniæ Sign. 1869.

Syn. A. greenii Ckll. A. cydonia Green. Has been found on Cycas revoluta at Savannah, Ga. (W. M. Scott), in New York

on palms in greenhouses, and on palm (*Howca belmoreana*) at Lawrence, Kansas (S. J. Hunter); on ivy (*Hedera*) at Lawrence, Mass. (King). It is a greenhouse species in Europe (Signoret). Introduced.

34. Aspidiotus hederæ Vall. 1829.

Usually cited as A. nerii, is found on Oleander and Draccena in the College Greenhouse in Colorado (Baker); a greenhouse pest in New Mexico (Cockerell); on lace fern, Asparagus
plumosus, and Hedera in the University greenhouse at Ithaca,
N. Y.; on Hedera and China tree in Ohio; on Creas revoluta.
Jasminum grandiflorum and orange in Georgia (W. M. Scott);
on Asparagus plumosus in the University greenhouse in Illinois
(W. G. Johnson); on a palm in a dwelling house at London,
Ont., Canada (King); on Oleander at Westbrook and Hedera
hibernica at Portland, Maine (O. O. Stover). It is a common
European species and found out of doors in California and
Georgia.

35. Aspidiotus hederæ var. ericæ Boisd.

Found in a greenhouse at Lawrence, Mass., on *heather* (*Erica*) King. A European species (Signoret). Introduced. 36. Aspidiotus myrsinæ Sign.

A species allied to *hederæ* found on *Myrsina retusa* in the hothouse of the Luxembourg, Paris (Signoret). Introduced.

37. Aspidiotus rapax Comst. 1881.

In Colorado on Japan quince, Aralia and Ficus clastica (Baker); on house plants in New Mexico (Cockerell): in College greenhouse at Amherst, Mass., and is found on Camellia in greenhouses in France. Introduced.

38 Aspidiotus cyanophylli Sign. 1860.

In the Harvard botanical greenhouse at Cambridge, Mass. (King); in greenhouses at Lawrence, Mass. (King); on *Ficus* species (Comstock); on *Cyanophyllum* and *Cycas* in Ceylon (E. E. Green) and in greenhouses in France (Signoret). Introduced.

39. Aspidiotus personatus Comst. 1882.

Has been found on plants under glass at the Kew Botanical Gardens, England.

40. Aspidiotus aurantii Mask. 1878.

Found on an orange in a greenhouse at San Francisco, Cal. Introduced.

41. Aspidiotus aurantii var. citrinus Coquill.

On olive in the conservatory of the U. S. department of Agr, at Washington, D. C. (Marlatt). Introduced.

42. Aspidiotus buddeiæ Sign.

This was found on *Buddeia salieina* in a greenhouse of the Luxembourg, Paris (Signoret).

43. Chrysomphalus aonidum L. Syn. Aspidiotus ficus Ashm.

Originally described as *Coccus aonidum*; is found at Santa Fe, New Mexico (Cockerell); at Corvallis, Oregon (A. B. Cordley); on *Phormium tenax* in Colorado (Gillette); in greenhouses in Florida; on palms at Gloversville, N. Y. (G. W. Pool); on palms, *Cycas revoluta* and ferns in Georgia (W. M. Scott); in the department greenhouses, Washington, D. C., on *Allamanda*; at Bangor, Maine (O. O. Stover). A common species in greenhouses in Mass. (King), and a frequently found species in Europe in greenhouses. Introduced.

44. Chrysomphalus dictyospermi Morg. 1889.

Described as an Aspidiotus; is found at Santa Fe, New Mexico, on Pandanus (Cockerell); on Chamærops elegans in greenhouses in Colorado (Baker); on Areca lutescens at Columbus, Ohio (J. S. Hine). I have received it on Cinnamon from a greenhouse at Ottawa, Canada, Coll. Fletcher, and from Dr. Dimmock, found on Ficus elastica at Enfield, Conn. It is found in Trinidad on Areca catechu (Hart). Introduced.

45. Disapis cacti var. catyptroides Casta.

Was first described from a greenhouse and found on Cactus in Georgia (W. M. Scott); in the college greenhouse at Amherst, Mass. on *Cactus* (D. H. Hemenway). It lives out of doors on wild *Cactacae* at Tucson, Arizona. It is recorded from pineapple in Georgia. This seems to be an error; it must have been an *Aulacaspis* species, *bromeliae* or *boisduvalii* [Ckll. in litt.].

46. Aulacaspis elegans Leon 1899.

Very destructive to *Cycas revoluta* in greenhouses at Springfield, Mass. (Dimmock), on *Cycas revoluta* in the Harvard Botanical greenhouse at Cambridge, and at Lawrence, Mass. (King). Originally described from Portici, Italy, on *Cycas revoluta*. Introduced.

47. Aulacaspis bromeliæ Kerner 1778.

On pineapple at San Jose, Cal., E. M. Ehrhorn, and received from O. O. Stover on *Latania borbonica* and *Livistona Chinensis* at Portland, Maine; on *Acacia*, *Olea fragans*, *Gnidia? simplex* and ivy at Plum Island and Amherst, Mass.; in the Botanical greenhouse at Cambridge, Mass. Introduced.

48. Aulacaspis boisduvalii Sign. 1869.

On palm in Colorado (Gillette); also on palms in greenhouse, Lawrence, Mass. (King). It is recorded as being found out of doors on apple and peach, but this seems very unlikely, as it is a tropical species. Introduced.

49. Parlatoria proteus var. pergandei Comst. 188c.

In a miscellaneous lot of scale insects sent to me by Prof. Cockerell for study, one on *Ficus* Sp., collected by P. J. Parrott, at Manhattan, Kansas, proved to be the above species. Introduced

50. Parlatoria proteus var. crotinis Douglas 1887.

Was found on *Croton* under glass at Columbus, Ohio. Coll. Bogue (Cockerell). Introduced.

51. Mytilaspis gloverii Pack. 1860.

On orange and lemon in a greenhouse in New York; on orange at Marshallville, Georgia; also on Magnolia fuscata (W. M. Scott). A very common species on orange and lemon out of doors. Nativity uncertain, probably introduced.

52. Mytilaspis beckii E. Newman, 1869.

Described as *Coccus beckii* Syn. *M. citricola* Pack. Found on dwarf orange at Thomasville, Georgia; on *Citrus* sp. in a greenhouse at Manhattan, Kansas, Coll. P. J. Parrott, 1898. Very common out of doors on orange and lemon; also found in a greenhouse near Moscow, Russia, on lemon. Introduced.

53 Pinnaspis pandani Comst. 1881.

Found in Mass. under glass (Cockerell). Originally described under the name Mytilaspis. Introduced.

54. Hemichionaspis aspidistræ Sign. 1869.

Described as a *Chionaspis*; was found on fern in the department greenhouse of Washington, D. C. (Cooley): on fern (*Pteris serrulata*) received from Dr. Fletcher; in a greenhouse at Ottawa, Canada, 1900, also received on *Cycas* sp. from Orono, Maine, Coll. O. O. Stover, and found on fern (*Davallia moorci*) in the Harvard botanical greenhouse, Cambridge, Mass. (King). It is also a common greenhouse pest in Europe (E. E. Green) and lives out of doors on several food plants. Cited by Signoret. Introduced.

55. Ischnaspis longirostris Sign. 1882, filiformis Dougl.

On palm in department greenhouse at Washington, D. C. (Howard); on palms, *Cycas* and *Aroids* in Trinidad, and *Strychnos myristica* and other plants in the Royal Botanical Garden greenhouse, London, England. It is very common on cultivated plants in the West Indies and in Australia, on palms in greenhouses (Maskell), also found at Atlanta, Georgia, on a palm, *Kentia belmoriana* (W. M. Scott), and in a greenhouse at Boston, Mass., on *Monstera* sp. Coll. S. Henshaw. Introduced. 56. Fiorinia fioriniæ Targ. 1869.

This is recorded under several names, e.g., F. camellia, Uhleria camellia, Diaspis fiorinia, Fiorinia pellucida and Chermes areca. It has been found at Washington, D. C., on Camellia, Cycas revoluta and palm Kentia belmoriana (Comst.); on Camellia at Baltimore, Maryland; on Camellia japonica and Cycas revoluta in Georgia (W. M. Scott); on Kentia belmoriana in conservatories at Kew, England (C. F. Morgan) and in greenhouses in France (Signoret). It is found out of doors in Europe and America.

(To be continued.)

Orneodes hexadactyla.—This species occurs also at Moscow, Idaho, where I have taken three specimens in nine years. A fourth was seen on the outside of a window, with its wings spread so as to display the peculiar structure; but when I came around to the place it had disappeared.—J. M. Aldrich.